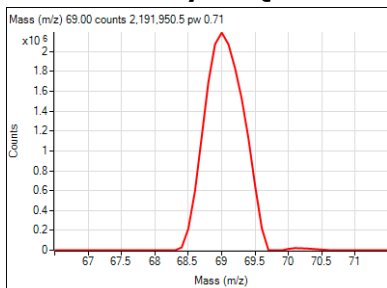


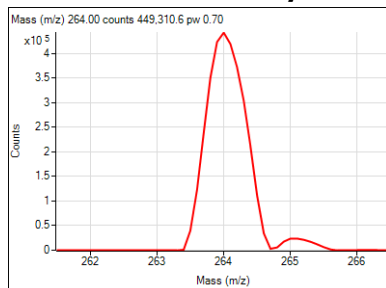
Triple Quadrupole GC/MS Autotune Report

Instrument Name	QQQ / US13285C02	MS Model	7000
Tune Date & Time	12/2/2023 11:23:46 AM	Source	EI with Extractor
Tune File	D:\MassHunter\GCMS\1\7000\atunes.eiex.tune.xml		

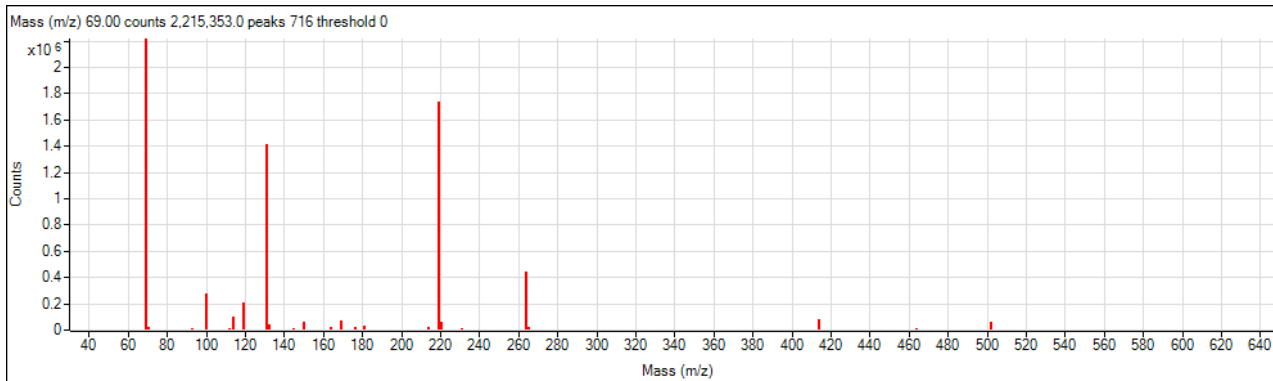
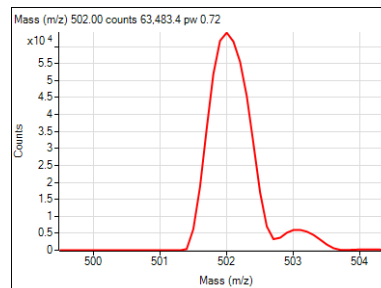
Analyzer: Q1



Ion Polarity: Positive

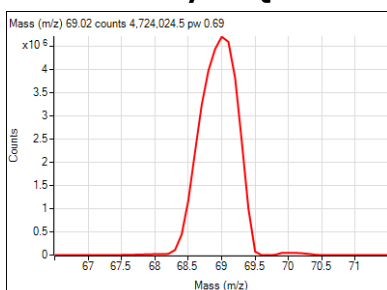


Width: Unit

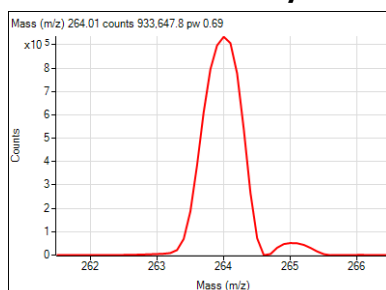


m/z	Abundance	Rel Abund	Isotope	Iso Abund	Iso Ratio
69.00	2,215,352.5	100.0%	70.10	21,126.3	1.0%
219.00	1,738,423.0	78.5%	220.10	66,585.9	3.8%
264.00	447,466.8	20.2%	265.00	24,315.0	5.4%
414.00	81,681.6	3.7%	415.00	6,888.2	8.4%
502.00	63,628.8	2.9%	503.00	6,210.9	9.8%

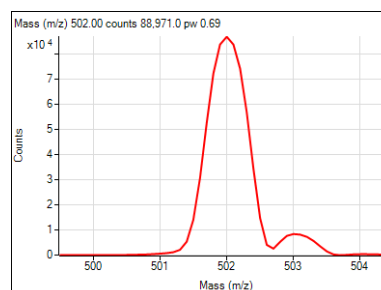
Analyzer: Q2



Ion Polarity: Positive



Width: Unit



Triple Quadrupole GC/MS Autotune Report

Instrument Name	QQQ / US13285C02	MS Model	7000
Tune Date & Time	12/2/2023 11:23:46 AM	Source	EI with Extractor
Tune File	D:\MassHunter\GCMS\1\7000\atunes.eiex.tune.xml		

Instrument Actuals

Source Temp.	230 °C	Rough Vac	1.37E+2 mTorr
MS1 Quad Temp.	150 °C	High Vac	8.95E-5 Torr
MS2 Quad Temp.	150 °C	Turbo 1 Speed	100.0 %
Filament Current	35.0 µA	Turbo 1 Power	20.9 W

GC Gas Flow

Quench Flow	2.250 mL/min	Column 1	1.000 mL/min
Collision Cell	1.500 mL/min	Column 2	0.000 mL/min

Ion Source

Type/mode	EI+	Repeller	7.2 V
Source Temp.	230 °C	Ion Body	12.4 V
Emission	35.0 µA	Extractor	5.8 V
Energy	70 eV	Ion Focus	-77.0 V
Filament	2	Entrance Lens	Dynamic V

Quadrupoles

		Q1		Q2
DC		6.4 V		-4.6 V
Post/Pre Filter		6.4 V		-14.6 V
Temperature		150 °C		150 °C
Polarity		Positive		Positive
DIP Mass	100.00	1000.00 m/z	100.00	1000.00 m/z
DIP Value	5.2	66.1 %	4.3	67.4 %

	Unit	Wide	Widest	Unit	Wide	Widest
Mass Gain	-6.00	-6.20	-6.78	3.53	3.36	3.36
Mass Offset	Dynamic	-1.619	-1.114	Dynamic	-1.715	-1.290
Width Gain	32.2	32.2	32.2	19.7	19.7	19.7
Width Offset	Dynamic	-0.257	-0.777	Dynamic	-0.193	-0.713

Collision Cell

Cell Entrance	7.4 V	Detector	Detector Type	Triple Axis
Hex DC	6.4 V		Iris	Dynamic V
Hex RF	400 V		HED	-10.0 kV
Hex Accel	-5.0 V		EMV (Gain=1.0E+005)	1203 V
Cell Exit	0.4 V		Gain Parameter a	11.78461
Collision Energy	0 eV		Gain Parameter b	-72.06771
			Max Gain Factor	47633

Fast Scan

Fast Scan Offset	-4.0 V		
Q1 Mass Gain	18.42	Q2 Mass Gain	8.33
Q1 Mass Offset	1.631	Q2 Mass Offset	-1.482
Q1 Width Gain	32.2	Q2 Width Gain	20.5
Q1 Width Offset	-0.777	Q2 Width Offset	-0.597

Triple Quadrupole GC/MS Autotune Report

Instrument Name	QQQ / US13285C02	MS Model	7000
Tune Date & Time	12/2/2023 11:23:46 AM	Source	EI with Extractor
Tune File	D:\MassHunter\GCMS\1\7000\atunes.eiex.tune.xml		

Dynamic Ramp Tables

MS1 Mass Axis Offset

m/z	69.00	219.00	264.00	414.00	502.00
Setting	-1.706	-1.686	-1.728	-1.770	-1.743

MS1 Width Offset

m/z	69.00	219.00	264.00	414.00	502.00
Setting	-0.076	-0.057	-0.045	-0.037	-0.056

MS2 Mass Axis Offset

m/z	69.00	219.00	264.00	414.00	502.00
Setting	-1.921	-1.837	-1.863	-1.864	-1.898

MS2 Width Offset

m/z	69.00	219.00	264.00	414.00	502.00
Setting	-0.002	0.020	0.016	0.010	0.008

Iris

m/z	69.00	219.00	264.00	414.00	502.00	1050.00
Setting	2.500	-5.000	-8.500	-13.500	-15.500	-28.000

Entrance Lens

m/z	69.00	219.00	264.00	414.00	502.00
Setting	-8.200	-11.200	-11.400	-12.600	-12.800

Scan Speed Correction Factor

	Q1	Q2
a0	-0.002000	0.004263
a1	1.125261	0.481363
a2	0.027805	-0.107120
b0	-0.032345	-0.026749
b1	7.940137	1.052160
b2	0.083251	0.452811

Diagnostic Information

Air/Water Check: H2O 2.44% (<=20.00%), O2 1.09% (<=2.50%), N2 4.07% (<=10.00%)

Detector Dark Current Check: Baseline 35, Threshold 30, HED On Pulse Count 521, HED Off Pulse Count 229